TPE Robot cable, twistable | CF ROBOT

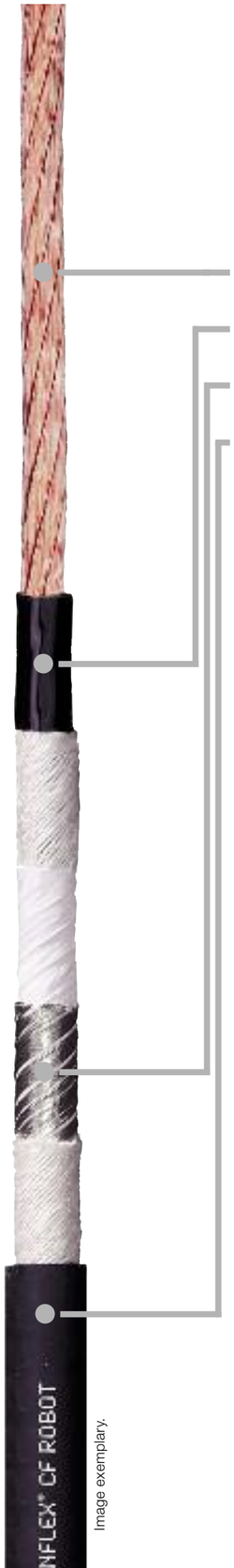

Image exemplary.

- for twistable loads
- TPE outer jacket
- shielded
- oil-resistant, biooil-resistant
- PVC-free
- UV-resistant
- flame-retardant
- hydrolysis-resistant and microbe-resistant

Conductor	Extremely bend-resistant cable.
Core insulation	Mechanically high-quality TPE mixture.
Overall shield	Extremely torsion resistant tinned braided copper shield. Coverage approx. 90% optical.
Outer jacket	Low-adhesion mixture on the basis of TPE, especially abrasion-resistant and highly flexible, adapted to suit the requirements in energy chains®. Colour: Jet black (similar to RAL 9005)
Bending radius	**twistable** minimum 10 x d **moved** minimum 7,5 x d **fixed** minimum 5 x d
Temperature	**twistable** -35 °C to +90 °C **fixed** -40 °C to +90 °C
v max. twisted	180°/s
a max. twisted	60°/s²
Travel distance	For twistable applications, but also for freely suspended travel distances and up to 10 m for gliding applications, Class 6
Torsion	± 180 °, with 1 m cable length
UV-resistant	High
Nominal voltage	600/1000 V (following DIN VDE 0250).
Testing voltage	4000 V (following DIN VDE 0281-2).
Oil	Oil-resistant (following DIN EN 60811-2-1), biooil-resistant (following VDMA 24568 with Plantocut 8 S-MB tested by DEA), Class 4.
Flame-retardant	According to IEC 60332-1-2, CEI 20-35, FT1, VW-1
Silicon-free	Free from silicon which can affect paint adhesion (following PV 3.10.7 – status 1992).
UL/CSA	Style 10258 and 21387, 1000 V, 90 °C
NFPA	Following NFPA 79-2012 chapter 12.9

eplan download, configurator ► www.igus.eu/CFROBOT

1030 types from stock no cutting costs ...

(for up to 10 cuts of the same type)

Class 6.6.4 (6 maximum load requirements 6 travel distance twisted 4 oil-resistant)

CFROBOT
TPE
± 180°

CEI	Following CEI 20-35
CE	Following 2006/95/EG
Lead free	Following 2011/65/EC (RoHS-II)
Clean room	According to ISO Class 1. Outer jacket material complies with CF34.UL.25.04.D, tested by IPA according to standard 14644-1
CTP	Certified according to N° C-DE.PB49.V.00397
EAC	Certified according to N° TC RU C-DE.ME77.B.00964

New! Guaranteed lifetime for this series according to the "chainflex® guarantee club" conditions ► Page 22-25

Cycles*			5 million	7,5 million	10 million
Temperature, from/to [°C]	v max. [°/s] tordiert	a max. [°/s²] tordiert	Torsion max. [°]	Torsion max. [°]	Torsion max. [°]
-35 / -25			±150	±90	±30
-15 / +80	180	60	±180	±120	±60
+80 / +90			±150	±90	±30

* higher number of cycles possible

Typical application area

- for maximum load requirements with torsion movements
- almost unlimited resistance to oil, also with bio-oils
- indoor and outdoor applications, UV-resistant
- especially for robots and movements in the 3D range
- robots, handling, spindle drives

Delivery program Part No.	Number of cores and conductor nominal cross section [mm²]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
CFROBOT.035	(1 x 10,0)C	10,5	121	197
CFROBOT.036	(1 x 16,0)C	12,0	183	274
CFROBOT.037	(1 x 25,0)C	14,5	289	425
CFROBOT.038	(1 x 35,0)C	15,5	391	534
CFROBOT.039	(1 x 50,0)C	18,0	546	726

Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits.
G = with green-yellow earth core **x =** without earth core

Order example: CFROBOT.035 – in your desired length (0,5 m steps)
CFROBOT chainflex® series **.035** Code nominal cross section

prices price list online
www.chainflex.eu/CFROBOT

delivery time despatched in
24 hours or today

... no minimum order quantity ...